

AMENDMENTS TO THE CLAIMS

1. **(Currently Amended)** A composition for administration to an animal, comprising:

an isolated immunogenic heatshock protein of ~~*L. intracellulari*~~ *L. intracellularis* ~~having an comprising the~~ amino acid sequence ~~comprising of~~ SEQ ID NO:2 in an amount effective to induce an immune response against ~~*L. intracellularia*~~ *L. intracellularis* in said animal; and

a pharmaceutically acceptable carrier.

2. **(Previously presented)** The composition according to Claim 1, wherein the composition is formulated for administration to a pig.

3.-11. **(Canceled)**

12. **(Currently Amended)** The composition of Claim 1, wherein the heatshock protein is produced by expression of a nucleic acid having a the nucleotide sequence comprising of SEQ ID NO:1.

13.-31. **(Canceled)**

32. **(Currently amended)** A method for inducing an immune response in an animal against *L. intracellularis* or treating an animal infected by *L. intracellularis*, said method comprising the step of:

administering to said animal ~~an effective amount of~~ the composition of Claim 1 in an amount effective to induce an immune response to *L. intracellularis*.

33. **(Original)** The method according to Claim 32 wherein the animal is a pig.

34.-36. **(Canceled)**

37. **(Currently amended)** The method according to Claim 32, wherein said composition ~~further~~ comprises more than one immunogenic component ~~a second peptide or protein, from~~ *L. intracellularis*.

38. **(Canceled)**

39. **(Canceled)**

40. **(Currently amended)** The method according to Claim 37, wherein ~~the second protein~~ at least one immunogenic component is selected from the group consisting of: a refolding protein, ~~a second heatshock protein,~~ a flagellar basal body rod protein, an S-adenosylmethionine,

tRNA ribosyltransferase-isomerase, an autolysin, an enoyl-(acyl-carrier-protein) reductase, and a glucarate transporter.

41.-113. (Canceled)

114. (Currently amended) The composition of Claim 1, wherein said composition further comprises at least one other polypeptide or peptide comprising the amino acid sequence selected from the group consisting of: SEQ ID NOS: 4, 7, 8, 10, 11, 13, 14, 16-20, and 22-27.

115. (Currently amended) The composition of Claim 1, further comprising at least one other protein or peptide, which is encoded by the nucleotide sequence selected from the group consisting of: SEQ ID NOS:3, 5, 6, 9, 12, 15, 21, 28, 29, 30, 31, 32, 33, and 34.

116. (Currently amended) The composition of Claim 1, further comprising at least one other protein from *L. intracellularis*, said protein selected from the group consisting of: a refolding protein, a flagellar basal body rod protein, a second heatshock protein, an S-adenosylmethionine, a tRNA transferase-isomerase, an autolysin, an enoyl-(acyl-carrier-protein) reductase, and a glucarate transporter.